

# CD11c Monoclonal Antibody (N418), FITC, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Mouse, Human
Host/Isotype	Armenian hamster / IgG
Recommended Isotype Control	Armenian Hamster IgG Isotype Control (eBio299Arm), FITC, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	N418
Conjugate	FITC
Form	Liquid
Concentration	0.5 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.1% gelatin
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_464940

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	13 Publications
Immunohistochemistry (Frozen) (IHC (F))	-	2 Publications
Immunocytochemistry (ICC/IF)	-	7 Publications
Flow Cytometry (Flow)	0.25 µg/test	174 Publications
In vitro Assay (IV)	-	1 Publication
Miscellaneous PubMed (Misc)	-	1 Publication

## Product Specific Information

**Description:** The N418 monoclonal antibody reacts with mouse CD11c, the integrin alphaX. CD11c non-covalently associates with beta2 integrin to form the CD11c/CD18 heterodimer. CD11c is expressed by dendritic cells, a subset of Intestinal Intraepithelial Lymphocytes (IEL) and some activated T cells. CD11c/CD18 binds to CD54, iC3b and fibrinogen and plays a role in leukocyte adhesive interactions. N418 binds to CD11c on splenic dendritic cells in the T-dependent areas of mouse spleen and precipitates a 150, 90 kDa heterodimer.

**Applications Reported:** The N418 antibody has been reported for use in flow cytometric analysis.

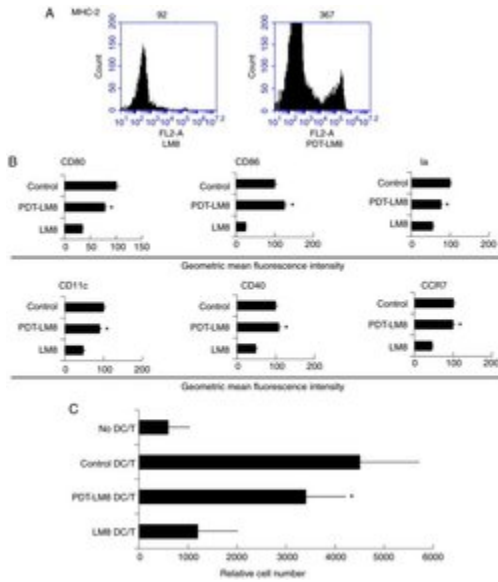
**Applications Tested:** The N418 antibody has been tested by flow cytometric analysis of mouse splenocytes. This can be used at less than or equal to 0.25 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10<sup>5</sup> to 10<sup>8</sup> cells/test. It is recommended that the

antibody be carefully titrated for optimal performance in the assay of interest.

Excitation: 488 nm; Emission: 520 nm; Laser: Blue Laser.

Filtration: 0.2 µm post-manufacturing filtered.

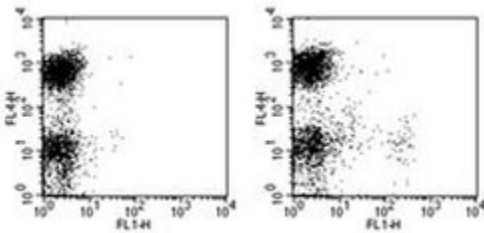
## Advanced Verification Data



### CD11c Antibody (11-0114-82)

Figure 2. PDT treatment partly reversed the effect of LM8 remnants on the phenotype of DCs and their ability to stimulate T cells proliferation. (A) The LM8 cells were pre-treated with PDT, and then labeled with antibodies against MHC-2, CD11c, CD40, CD86, CD80 and CCR7, for phenotypic analysis by flow cytometry. (B) The numbers in the histograms indicate the geometric mean fluorescence intensity. \*P < 0.05 PDT-LM8 vs LM8. (C) CD4 + T cells from DO11.10 OVA 323-339 -specific (TCR-transgenic x C57BL/6) F1 hybrid mice were co-cultured with DCs or mDCs (control) in the presence of OVA peptides. Five days later, the total number of viable CD4 + T (CD4 + 7-AAD -) cells in each well was measured by flow cytometry. Data represent one of at least three experiments with similar results. \*P < 0.05 PDT-LM8 DC/T vs LM8 DC/T. PDT, photodynamic therapy; DCs, dendritic cells; MHC-2, major histocompatibility complex 2; CD, cluster of differentiation; CCR7, C-C chemokine receptor 7; DC/T, DCs and T cell co-culture. Cell treatment validation info.

## Product Images For CD11c Monoclonal Antibody (N418), FITC, eBioscience™



### CD11c Antibody (11-0114-82) in Flow

Staining of C57BL/6 splenocytes with Anti-Human/Mouse CD45R (B220) APC (Product # 17-0452-82) and 0.125 µg of Armenian Hamster IgG Isotype Control FITC (Product # 11-4888-81) (left) or 0.125 µg of Anti-Mouse CD11c FITC (right). Total viable cells were used for analysis.

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## Immunohistochemistry (13)

EMBO molecular medicine

### Glufosinate constrains synchronous and metachronous metastasis by promoting anti-tumor macrophages.

"Published figure using CD11c monoclonal antibody (Product # 11-0114-82) in Flow Cytometry"

Authors: Menga A, Serra M, Todisco S, Riera-Domingo C, Ammarah U, Ehling M, Palmieri EM, Di Noia MA, Gissi R, Favia M, Pierri CL, Porporato PE, Castegna A, Mazzone M

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2020

International journal of molecular medicine

### Identification of different macrophage subpopulations with distinct activities in a mouse model of oxygen-induced retinopathy.

"Published figure using CD11c monoclonal antibody (Product # 11-0114-82) in Immunofluorescence"

Authors: Zhu Y, Zhang L, Lu Q, Gao Y, Cai Y, Sui A, Su T, Shen X, Xie B

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2017

[View more IHC references on thermofisher.com](#)

## Immunohistochemistry (Frozen) (2)

The Journal of experimental medicine

### Essential roles of DC-derived IL-15 as a mediator of inflammatory responses in vivo.

"Published figure using CD11c monoclonal antibody (Product # 11-0114-82) in Immunohistochemistry"

Authors: Ohteki T, Tada H, Ishida K, Sato T, Maki C, Yamada T, Hamuro J, Koyasu S

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2006

International immunology

### The existence of CD11c+ sentinel and F4/80+ interstitial dendritic cells in dental pulp and their dynamics and functional properties.

Authors: Zhang J, Kawashima N, Suda H, Nakano Y, Takano Y, Azuma M

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2006

## More applications with references on thermofisher.com

ICC/IF (7)

Flow (174)

IV (1)

Misc (1)

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